BUILDING TRUST

PRODUCT DATA SHEET

Wabo® Flex AIJ

Molded Rubber Segmental Expansion Joint System

DESCRIPTION

Wabo® Flex AIJ reinforced elastomeric molded rubber expansion joint system. All sections feature tongue and groove fittings for tight end-to-end mating across decks and at curbs and are steel reinforced.
It can be installed in new decks, or in older structures on rehabilitation. When properly installed, the Wabo® Flex AIJ system will accommodate anticipated thermal movements reject debris and create a level, smooth-riding, wear-resistant surface.

USES

- Low height joint sealing restrictions
- Bridges, decks and ramps
- Expansion joint application with maximum movement 330 mm
- New construction or repair and maintenance of existing joints

FEATURES

Versatility
Combines the strength of steel and the flexibility of elastomer rubber.

Durability
Steel reinforced elastomer provides a durable surface under traffic and adjusts readily to structural movement.

Smooth ride
The Wabo® Flex AIJ joint system's low profile and minimum open surface exposure prevent debris build-up and allow for a smooth ride. The partial confinement of elastomer reduces deflection under traffic loading.

Minimal open surface
Prevents accumulation of debris, ice and incompressible items.
Provides a smooth riding surface.

Unitized
Pre-moulded standard sections allow for lane closures and sectional working on repair project.

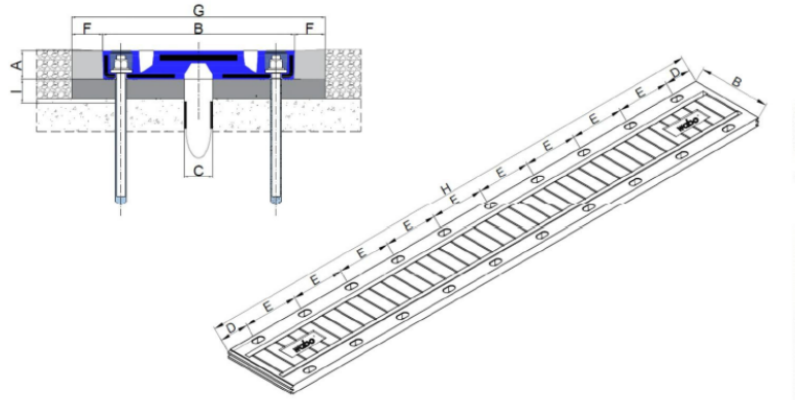
PRODUCT INFORMATION

Composition	Neoprene rubber (Polychloroprene) Steel (S235JR or S275JR EN10025, equivalent to ASTM A36).
Packaging	Supplied in standard lengths of: Wabo® Flex AIJ 50 to AIJ 100, AIJ 140 to AIJ 250 - 2 meters Wabo® Flex AIJ 120 and AIJ 330 - 1 meter
Shelf life	**Neoprene rubber (polychloroprene):** 5 years if stored in a cool, dry environment,protected from direct sunlight, UV radiation, ozone, and excessive humidity. **Steel (S235JR or S275JR EN10025, equivalent to ASTM A36):** No defined shelf life when stored under suitable dry conditions and protected from corrosion and environmental deterioration.

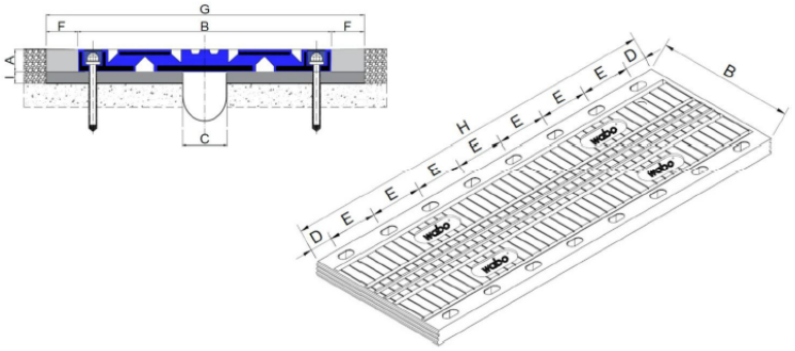
Storage conditions

The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +15 °C and +25 °C.

Dimensions



Model	Service Total Movement	Dimensions (mm)								
		A	B	C (gap @ midrange temp.)	D	E	F	G	H	I
AIJ-50	50 mm	41	272	40	95/105	200	44	360	2000	var.
AIJ-80	80 mm	46	358	60	120/130	250	46	450	2000	var.
AIJ-100	100 mm	53	388	70	120/130	250	56	500	2000	var.
AIJ-120	120 mm	69	427	80	125	250	52	530	1000	var.
AIJ-140	140 mm	80	465	85	115/135	250	48	560	2000	var.
AIJ-160	160 mm	84	498	100	125	250	81	660	2000	var.



Model	Service Total Movement	Dimensions (mm)								
		A	B	C (gap @ midrange temp.)	D	E	F	G	H	I
AIJ-200	200 mm	70	800	140	120/130	250	100	1000	2000	var.
AIJ-250	250 mm	78	880	160	120/130	250	100	1080	2000	var.
AIJ-330	330 mm	100	1100	220	125	250	100	1300	1000	var.

TECHNICAL INFORMATION

Shore A hardness	~60		(ASTM D2240)
Tensile strength	≥ 15.0 MPa		(ASTM D412)
Retention of properties after heat ageing	Shore A hardness	+15 % Max.	(ASTM D573)
	Tensile strength	-25 % Max.	
	Elongation at break	-40 % Max.	
	168 hrs at 158 °F (70 °C)		
Elongation at break	≥ 350 %		(ASTM D412)
Resistance to ozone	No cracks		(ASTM D1149, Method B)
	70 hours at 100 °F / 38 °C, 20% strain, 100 pphm		

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS OF USE

We do not recommend the use of Wabo® Flex AIJ joint system under the following conditions:

- On joints where the gap width exceeds the capacity of each respective profile.
- On joints where movements exceed 330 mm
- The bottom surface of the blockout must be parallel with the plane of the riding surface (true and flat)
- Base of blockout on both sides of gap must be at same elevation

FURTHER DOCUMENTATION

- General Method Statement (GMS)
- Substrate preparation for Wabo® floor joints

IMPORTANT CONSIDERATIONS

- Field service, where provided, does not constitute supervisory information responsibility.
- For any support, contact your local Sika representative.
- Extreme care should be taken for the selection of the right module considering gap size, movement and ambient temperature. Sika reserves the right to have the true cause of any difficulty determined by accepted test methods.

ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0,1 % (w/w).

APPLICATION INSTRUCTIONS

EQUIPMENT

- Torque wrench to tighten anchors.
- Pry bar to move or position panel.
- Hydraulic ram assembly to adjust system for ambient temperature.

SUBSTRATE PREPARATION

- Blockout base must be parallel with plane of riding surface.
- Sandblast blockout surfaces prior to installation.

APPLICATION

- Prepare blockouts to proper dimensions and grades. Care shall be taken to ensure that all anchors are set at right angles to the bottom of blockout.
- Install Wabo® Flex AIJunits starting at the curb.
- Proceed until reaching the field cut piece. Apply sealant to the ends of field cut pieces prior to final placement.
- Retorque all anchors approximately one hours after tightening.
- Fill bolts cavity with sealant and void between Wabo® Flex AIJ sections and vertical face.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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